



EE170 Energy Management: Certified Energy **Professionals**















Course Objectives:

Upon successful completion of this course, the delegates will be able to:

- Get certified as a "Certified Energy Professional"
- Recognize the need for energy management as well as conduct energy audit, audit reports and energy audit instrumentation
- Explain energy codes, standards and protocols as well as energy purchasing, accounting and benchmarking
- Discuss energy and electricity rate structures and carryout electrical systems,
 electric energy management, economic analysis and life cycle costing
- Determine lighting basics and lighting system improvements as well as electric motors, industrial systems and thermal energy storage
- Apply boilers and thermal systems improvement and discuss waste heat, cogeneration and CHP systems
- Identify renewable energy sources and employ maintenance programs and building commissioning, automation and control systems
- Describe M&V, alternative financing, green buildings and LEED
- Enumerate various units, conversions, charts, tables and list of acronyms provided

Who Should Attend?

International Centre For Training & Development
This course is designed for energy professionals including production, maintenance, safety,
environment and quality department engineers and section heads.

Course Outline:

DAY 1:

- The Need for Energy Management
- Conducting an Energy Audit, Audit Reports & Energy Audit Instrumentation
- Energy Codes, Standards & Protocols

DAY 2:

Energy Purchasing, Accounting & Benchmarking

EE170 | REVISION 001 PAGE **2** OF **4**

- Energy & Electricity Rate Structures
- Electrical Systems & Electric Energy Management
- Economic Analysis & Life Cycle Costing

DAY 3:

- Lighting Basics & Lighting System Improvements
- Electric Motors & Industrial Systems
- Thermal Energy Storage
- Boilers & Thermal Systems Improvement

DAY 4:

- Waste Heat, Co-Generation, CHP Systems
- Renewable Energy Sources
- Maintenance Programs & Building Commissioning
- Building Automation & Control Systems

DAY 5:

- M&V & Alternative Financing
- Green Buildings & LEED
- Units & Conversions
- Charts, Tables & List of Acronyms



Course Certificate:

International Center for Training & Development (ICTD) will award an internationally recognized certificate(s) for each delegate on completion of training.

Course Methodology:

A variety of methodologies will be used during the course that includes:

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test

EE170 | REVISION 001 PAGE 3 OF 4

- Variety of Learning Methods
- Lectures
- Case Studies and Self Questionaires
- Group Work
- Discussion
- Presentation

Course Fees:

To be advised as per the course location. This rate includes participant's manual, and-Outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Timings:

Daily Course Timings:

Morning Coffee / Tea
First Session
Coffee / Tea / Snacks
Second Session
Lunch Break & Prayer Break
Last Session
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EE170 | REVISION 001 PAGE 4 OF 4